(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property **Organization**

International Bureau



(43) International Publication Date 17 July 2003 (17.07.2003)

PCT

(10) International Publication Number WO 2003/058022 A3

(51) International Patent Classification7:

E21B 23/00

(21) International Application Number:

PCT/US2002/039425

(22) International Filing Date:

10 December 2002 (10.12.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/343,674

27 December 2001 (27.12.2001) US

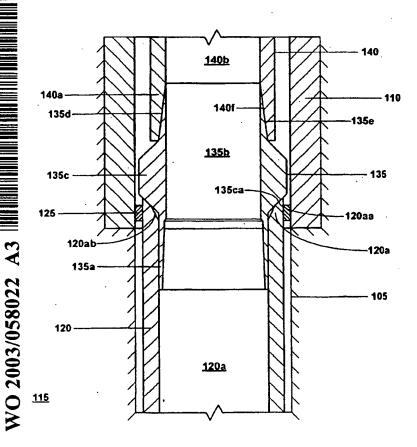
- (71) Applicant (for all designated States except US): ENVEN-TURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WADDELL, Kevin,

Karl [US/US]; 11007 Sprucedale Court, Houston, TX 77077 (US). BULLOCK, Michael, Dennis [US/GB]; The Beeches, 25 Hillhead Road, Aberdeen, AB15 9EJ (GB). HOCKADAY, Joel, Gray [US/US]; 17318 Ginger Fields Land, Tomball, TX 77375 (US). JACKSON, Tance, Alan [US/US]; 7209 Ridgemoor Lane, Plano, TX 75025 (US).

- (74) Agents: MATTINGLY, Todd et al.; Haynes and Boone, LLP, Suite 4300, 1000 Louisiana Street, Houston, TX 77002-5012 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, A7, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, IP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: SEAL RECEPTACLE USING EXPANDABLE LINER HANGER



(57) Abstract: The end of an expandable liner hanger (120) provides a receptacle for another tubular liner (135).

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

with international search report

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 8 July 2004

For two letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

International application No.

INTERNATIONAL SEARCH REPORT

Form PCT/15A/210 (second sheet) (July 1998)

Facsimile No. (703)305-3230 Alexandria, Virginia 22313-1450 Telephone No. 703-308-1113 P.O. Box 1450 Commissioner for Patents U. Hodges Lyme H. Browne Mail Stop PCT, Atm: ISAUS Name and insiling address of the UASI Authorized officer **\$6005 YAM 88** 16 May 2003 (16.05.2003) Date of mailing of the international search report Date of the actual completion of the international search document published prior to the international filing due but later than the document member of the same patent family document referring to an oral disclosure, use, exhibition or other means considered to involve an inventive step when the docume combined with one or more other such documents, such combination being obvious to a person skilled in the an document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reacon document of particular relevance; the claimed invention cannot be document of particular relevance; the claimed invention cannot be considered movel or cannot be considered to involve an inventive step when the document is taken alone cartier application or patent published on or after the International filing lact document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document defining the general state of the art which is not considered to Special exegories of cited documents: See patent family annex. Further documents are listed in the continuation of Box C. US 4,856,592 A (Van Bilderbeck et al.) 15 August 1989 (15.08.1989), Figure 4 8,7,1 X 6 3. 4.942,925 A (Themig) 24 July, 1990 (24.07,1990), Figure 3. ¥ 6 1,2,5,1 US 4,601,343 A (Lindsey, 1r. et al.) 22 July 1986 (22.07.1986), Figures 1 and 2. Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category * DOCUMENTS CONSIDERED TO BE RELEVANT Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched P86,286,802,702/331 : .2.U Minimum documentation searched (classification system followed by classification symbols) FIELDS SEARCHED According to International Patent Classification (IPC) or to both national classification and IPC 166/207,208,382 **NZ CT** E21B 23/00 (7)24I CLASSIFICATION OF SUBJECT MATTER FCT/US02/39425